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(54) Title: PROCESS FOR PREPARATION OF 1,3-BENZODIOXOLE-2-SPIRO- CYCLOALKANE DERIVATIVES

(54) 発明の名称: 1、 3-ベンゾジオキソール-2-スピロシクロアルカン誘導体の製造法

(57) Abstract: A process for the preparation of 1,3-benzodioxole-2-spirocycloalkane derivatives represented by the general formula (VII), characterized by adding a base to a mixture comprising a compound represented by the general formula (V) and a compound (VII), characterized by adding a base to a mixture comprising a compound represented by the general formula (V) and a compound represented by the general formula (VI) to thereby make the compound (V) react with the compound (VI): (A) wherein R¹ is hydroxyl or substituted or unsubstituted lower alkoxy; R2 is an aromatic heterocyclic group or the like; Y is lower alkyl or the like; and n is an integer of 1 to 6.











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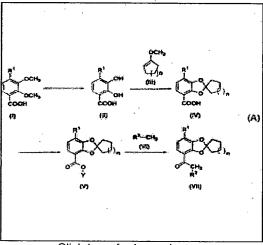
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WO2004005276 A1 PROCESS FOR PREPARATION OF 1,3-BENZODIOXOLE-2-SPIRO-CYCLOALKANE DERIVATIVES KYOWA HAKKO KOGYO CO., LTD.

Abstract:

A process for the preparation of 1,3-benzodioxole-2spirocycloalkane derivatives represented by the general formula (VII), characterized by adding a base to a mixture comprising a compound represented by the general formula (V) and a compound represented by the general



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formula (VI) to thereby make the compound (V) react with the compound (VI): (A) wherein R 1 is hydroxyl or substituted or unsubstituted lower alkoxy; R 2 is an aromatic heterocyclic group or the like; Y is lower alkyl or the like; and n is an integer of 1 to 6.

Inventor(s):

ATSUMI, Toshiyuki YANAGISAWA, Arata CHUJO, Iwao TSUMUKI, Hiroshi MOHRI, Shin-ichiro

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Patents Cited:

→ EP0771794 (X) [0]

Patents Citing This One (6):

- → WO2004087147 A1 20041014 KYOWA HAKKO KOGYO CO., LTD. REMEDY AND/OR PREVENTIVE FOR LUNG DISEASES
- → WO2004087148 A1 20041014 KYOWA HAKKO KOGYO CO. LTD. REMEDY AND/OR PREVENTIVE FOR LUNG DISEASES
- → WO2004087149 A1 20041014 KYOWA HAKKO KOGYO CO. LTD. MEDICINAL COMPOSITION
- → WO2004087150 A1 20041014 KYOWA HAKKO KOGYO CO. LTD. DRUG COMPOSITION
- → WO2004087151 A1 20041014 KYOWA HAKKO KOGYO CO., LTD. MEDICINAL COMPOSITION
- → WO2004096274 A1 20041111 KYOWA HAKKO KOGYO CO., LTD. DRUG FOR AIRWAY ADMINISTRATION

French Title: METHODE DE PREPARATION DE DERIVES DE 1,3-BENZODIOXOLE-2-SPIRO-CYCLOALCANE

French Abstract: L'invention concerne une méthode de préparation de dérivés de 1,3- benzodioxole-2-spiro-cycloalcane de formule générale (VII), caractérisés par l'adjonction d'une base à un mélange contenant un composé de formule générale (V) et un composé de formule générale (VI), pour obtenir une réaction du composé (V) avec le composé (VI). Dans ladite formule, R 1 est hydroxyle ou alcoxy inférieur substitué ou insubstitué; R 2 est un groupe hétérocyclique aromatique ou analogue; Y est alkyle inférieur ou analogue; et n est un entier compris entre 1 et 6.

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Detailed Description

NotAvailable

Claims (English)

{n/a}

Claims (French)

 $\{n/a\}$

Claims (German)

 $\{n/a\}$

Claims (Spanish)

 ${n/a}$

















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